

Form PTO-1449 (modified)

List of Patents and Publications for Applicant's

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.
STFD:009-1Serial No.
09/356,322Applicant
P.O. Brown and T.D. ShalonFiling Date:
July 16, 1999Group:
1631U.S. Patent Documents
See Page 1Foreign Patent Documents
See Page 1Other Art
See Page 2

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
AM	1	5,869,237	02/09/99	Ward et al.	435	6	Nov. 22, 1994
	2	5,225,326	07/06/93	Bresser et al.	435	6	Oct. 28, 1991
	3	5,219,726	06/15/93	Evans	435	6	Jun. 2, 1989
	4	5,026,840	06/25/91	Dattagupta et al.	536	27	Feb. 6, 1990
	5	5,002,867	03/26/91	Macevicz	435	6	Oct. 24, 1988
	6	4,855,225	08/08/89	Fung et al.	435	6	Feb. 7, 1986
	7	4,849,513	07/18/89	Smith et al.	536	27	Jun. 24, 1986
	8	4,728,591	03/01/88	Clark et al.	430	5	Mar. 7, 1986
	9	4,584,277	04/22/86	Ullman	436	501	Apr. 5, 1983
	10	4,542,102	09/17/85	Dattagupta et al.	435	6	Jul. 5, 1983
	11	6,040,193	03/21/00	Winkler et al.	436	180	August 4, 1998

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
AM	12	EP 0 232 967 B1	04/28/93	EPO			
	13	EP 0 185 547 B1	06/03/92	EPO			
	14	EP 0173 339 B1	01/22/92	EPO			
	15	WO 90/05789	05/31/90	PCT			
	16	WO 90/04652	05/03/90	PCT			

EXAMINER:

Andin Marschof

DATE CONSIDERED: 3-23-01

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)

List of Patents and Publications of Applicant's

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.

STFD:009-1

Serial No.

09/356,322

Applicant

P.O. Brown and T.D. Shalon

Filing Date:

July 16, 1999

Group:

1631

U.S. Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 2

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
AM	17	Nederlof et al., "Three-Color Fluorescence In Situ Hybridization for the Simultaneous Detection of Multiple Nucleic Acid Sequences," <i>Cytometry</i> , 10:20-27 (1989)
AM	18	M. Renz and C. Kurz, "A colorimetric method for DNA hybridization," <i>Nucleic Acids Research</i> , 12(8):3425-3445 (1984)
	19	Lehrach et al., "Hybridization Fingerprinting in Genome Mapping and Sequencing," <i>Genome Analysis Volume I: Genetic and Physical Mapping</i>, 39-81

EXAMINER:

Adin Marsch

DATE CONSIDERED:

3-23-01

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)List of Patents and Publications
For Applicant's Information
Disclosure StatementATTY. DOCKET NO.
STFD 009-1SERIAL NO.
Not yet assigned
(Continuation of 08/688,488)

APPLICANTS: P.O. Brown and T.D. Shalon

FILING DATE
herewithGROUP
~~163~~ 1631U.S. P.T.O.
09/356322
07/16/99**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
Am	A1	3,730,844	05/01/73	Gilham, et al.	195	103.5R	
	A2	4,071,315	01/31/78	Chateau	23	230B	
	A3	4,486,539	12/04/84	Ranki, et al.	436	504	
	A4	4,556,643	12/03/85	Paau, et al.	436	501	
	A5	4,563,419	01/07/86	Ranki, et al.	435	6	
↓	A6	4,670,380	06/02/87	Dattagupta	435	6	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
Am	B1	WO 90/03382	04/05/90	PCT			
↓	B2	WO 95/00530	01/05/95	PCT			
↓	B3	WO 95/15970	06/15/95	PCT			

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

Am	C1	Billings <i>et al.</i> , "New Techniques for Physical Mapping of the Human Genome," <i>FASEB</i> , 5:28-34 (1991).					
	C2	Chee, <i>et al.</i> , "Accessing Genetic Information with High-Density DNA Arrays", <i>Science</i> , 274:610-614 (1996).					
	C3	Drmanac <i>et al.</i> , "DNA Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing," <i>Science</i> , 260:1649-1652 (1993).					
	C4	Drmanac <i>et al.</i> , "Laboratory Methods: Reliable Hybridization of Oligonucleotides as Short as Six Nucleotides," <i>DNA and Cell Biology</i> , 9:527-534 (1990).					
	C5	Drmanac <i>et al.</i> , "Sequencing by Hybridization: Towards an Automated Sequencing of One Million M13 Clones Arrayed on Membranes," <i>Electrophoresis</i> , 13:566-573 (1992).					
↓	C6	Ekins, <i>et al.</i> , "Multianalyte Immunoassay: The Immunological 'Compact Disk' of the Future", <i>J. Clinical Immunoassay</i> , 13(4):169-181 (1990).					

EXAMINER

Andi Manosher

DATE CONSIDERED

3-23-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (modified)List of Patents and Publications
For Applicant's Information
Disclosure StatementATTY. DOCKET NO.
STFD 009-1SERIAL NO.
Not yet assigned
(Continuation of 08/688,488)

APPLICANTS: P.O. Brown and T.D. Shalon

FILING DATE
herewithGROUP 1631
~~1630~~**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AM	A7	4,677,054	06/30/87	White et al.	435	6	
	A8	4,683,195	07/28/87	Mullis, et al.	435	6	
	A9	4,683,202	07/28/87	Mullis	435	91	
	A10	4,716,106	12/29/87	Chiswell	435	6	
	A11	4,731,325	03/15/88	Palva, et al.	435	6	
	A12	4,755,458	07/05/88	Rabbani, et al.	435	5	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
AM	B4	WO 95/21944	08/17/95	PCT			
	B5	WO 95/25116	9/21/95	PCT			
	B6	WO 96/17958	06/13/96	PCT			

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

AM	C7	Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," <i>Science</i> , <u>251</u> :767-773 (1991).
	C8	Guo, et al., "Direct Fluorescence Analysis of Genetic Polymorphisms by Hybridization with Oligonucleotide Arrays on Glass Supports", <i>Nucleic Acids Research</i> , <u>22</u> :5456-5465 (1994).
	C9	Johnston, et al., "Chemistry of High Density Arrays: Factors Impacting Issues of Complexity", (Abstract) <i>Microbial & Comparative Genomics</i> , <u>1</u> :235 (1996).
	C10	Kallioniemi et al., "Comparative Genomic Hybridization for Molecular Cytogenetic Analysis of Solid Tumors," <i>Science</i> , <u>258</u> :818-821 (1992).
	C11	Kallioniemi et al., "Optimizing Comparative Genomic Hybridization for Analysis of DNA Sequence Copy Number Changes in Solid Tumors," <i>Genes, Chromosomes & Cancer</i> , <u>10</u> :231-243 (1994).
	C12	Khrapko et al., "A Method for DNA Sequencing by Hybridization with Oligonucleotide Matrix," <i>DNA Sequencing and Mapping</i> , <u>1</u> :375-388 (1991).

EXAMINER Adam ManselDATE CONSIDERED 3-23-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (modified)List of Patents and Publications
For Applicant's Information
Disclosure StatementATTY. DOCKET NO.
STFD 009--1SERIAL NO.
Not yet assigned
(Continuation of 08/688,488)

APPLICANTS: P.O. Brown and T.D. Shalon

FILING DATE
herewithGROUP
~~168~~ 1631**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AM	A13	4,767,700	08/30/88	Wallace	435	6	
	A14	4,868,104	09/19/89	Kurn, et al.	435	6	
	A15	4,868,105	09/19/89	Urdea, et al.	435	6	
	A16	4,921,805	05/01/90	Gebeyehu, et al.	435	270	
	A17	4,981,783	01/01/91	Augenlicht	435	6	
	A18	5,013,669	05/07/91	Peters, Jr. et al.	436	518	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
AM	B7	EPO 721016A2	07/10/96	EPO			
	B8	WO 92/10588	06/25/92	PCT			
	B9	WO 93/22680	11/11/93	PCT			

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

AM	C13	Kozal, et al., "Extensive Polymorphisms Observed in HIV-1 Clade B Protease Gene using High-Density Oligonucleotide Arrays", <i>Nature Medicine</i> , 2:753-759 (1996).					
	C14	Kreiner, "Rapid Genetic Sequence Analysis Using a DNA Probe Array System," <i>American Laboratory</i> (March 1996).					
	C15	Lehrach et al., "Hybridization Fingerprinting in Genome Mapping and Sequencing," in <i>Genome Analysis</i> , Volume I: Genetic and Physical Mapping. (K.E. Davies & S.M. Tilgham, Eds.) Cold Spring Harbor Laboratory Press, pp. 39-81 (1990).					
	C16	Lennon et al., "Hybridization Analyses of Arrayed cDNA Libraries," <i>Trends In Genetics</i> , 7:314-317 (1991).					
	C17	Maskos, et al., "A Study of Oligonucleotide Reassociation Using Large Arrays of Oligonucleotides Synthesised on a Glass Support", <i>Nucleic Acids Research</i> , 21:4663-4669 (1993)					
	C18	Medlin, "The Amazing Shrinking Laboratory", <i>Environmental Health Perspectives</i> , 103:244-246 (1995)					

EXAMINER *Andra Mascher*

DATE CONSIDERED 3-23-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (modified)List of Patents and Publications
For Applicant's Information
Disclosure StatementATTY. DOCKET NO.
STFD 009--1SERIAL NO.
Not yet assigned
(Continuation of 08/688,488)

APPLICANTS: P.O. Brown and T.D. Shalon

FILING DATE
herewithGROUP **1631**
~~8632~~**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AM	A19	5,028,545	07/02/91	Soini	436	501	
	A20	5,064,754	11/12/91	Mills	435	6	
	A21	5,091,652	02/25/92	Mathies, et al.	250	458.1	
	A22	5,100,777	03/31/92	Chang	435	7.24	
	A23	5,143,854	09/01/92	Pirrung et al.	436	518	
	A24	5,185,243	02/09/93	Ullman, et al.	435	6	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
AM	B10	WO 89/10977	05/02/89	PCT			
	B11	WO 93/09668	05/27/93	PCT			
	B12	WO 95/11995	05/04/95	PCT			

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

AM	C19	Nguyen <i>et al.</i> , "Differential Gene Expression in the Murine Thymus Assayed by Quantitative Hybridization of Arrayed cDNA Clones," <i>Genomics</i> , <u>29</u> :207-216 (1995).					
	C20	Nowak, "Entering the Postgenome Era", <i>Science</i> , <u>270</u> :368-369 (1995).					
	C21	Pease, <i>et al.</i> , "Light-generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis", <i>Proc. Natl. Acad. Sci. USA</i> , <u>91</u> :5022-5026 (May 1994).					
	C22	Pietu, <i>et al.</i> , "Novel Gene Transcripts Preferentially Expressed in Human Muscles Revealed by Quantative Hybridization of a High Density cDNA Array", <i>Genome Research</i> , <u>6</u> :492-503 (1996).					
	C23	Regalado, "DNA - Chips in Genomics", <i>Start Up</i> , <u>1</u> :24-30 (1996).					
	C24	Sambrook, <i>et al.</i> , "Molecular Cloning, A Laboratory Manual", <i>Cold Spring Harbor Press</i> , pp.7.39-7.52 (1989).					

EXAMINER **John Marshall**DATE CONSIDERED **3-23-01**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (modified)List of Patents and Publications
For Applicant's Information
Disclosure StatementATTY. DOCKET NO.
STFD 009--1SERIAL NO.
Not yet assigned
(Continuation of 08/688,488)

APPLICANTS: P.O. Brown and T.D. Shalon

FILING DATE
herewithGROUP
~~1630~~ 1631**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AM	A25	5,188,963	02/23/93	Stapleton	435	299	
	A26	5,200,312	04/06/93	Oprandy	435	5	
	A27	5,202,231	04/13/93	Drmanac, et al.	435	6	
	A28	5,204,268	04/20/93	Matsumoto	436	44	
	A29	5,242,974	09/07/93	Holmes	525	54.11	
V	A30	5,252,296	10/12/93	Zuckerman, et al.	422	116	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
AM	B13	WO 97/10365	03/20/97	PCT			
J	B14	EP 0717113 A2	06/19/96	EPO			
V	B15	GB 2,248,840	06/07/90	United Kingdom			

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

AM	C25	Schena, et al., "Structure of Homeobox-Leucine Zipper Genes Suggests a Model for the Evolution of Gene Families", <i>Proc. Natl. Acad. Sci. USA</i> , 91:8393-8397 (Aug. 1994).
	C26	Schena, "Genome Analysis with Gene Expression Microarrays", <i>BioEssays</i> , 18:427-431 (1996).
	C27	Schena, et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , 270:467-470 (1995).
	C28	Schena, et al., "Parallel Human Genome Analysis: Microarray-based Expression Monitoring of 1000 Genes", <i>Proc. Natl. Acad. Sci. USA</i> , 93:10614-10619 (Oct. 1996).
	C29	Schena, et al., "The HAT4 Gene of <i>Arabidopsis</i> Encodes a Developmental Regulator", <i>Genes & Development</i> , 7:367-379 (1993).
V	C30	Schena, et al., "HD-Zip Proteins: Members of an <i>Arabidopsis</i> Homeodomain Protein Superfamily", <i>Proc. Natl. Acad. Sci. USA</i> , 89:3894-3898 (May 1992).

EXAMINER *Adam Marscher*

DATE CONSIDERED 3-23-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (modified)List of Patents and Publications
For Applicant's Information
Disclosure StatementATTY. DOCKET NO.
STFD 009--1SERIAL NO.
Not yet assigned
(Continuation of 08/688,488)

APPLICANTS: P.O. Brown and T.D. Shalon

FILING DATE
herewithGROUP
~~162~~ 1631**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AM	A31	5,328,824	07/12/94	Ward, et al.	435	6	
	A32	5,338,688	08/16/94	Deeg, et al.	436	180	
	A33	5,348,855	09/20/94	Dattagupta, et al.	435	6	
	A34	5,389,512	02/14/95	Sninsky, et al.	435	5	
	A35	5,434,049	07/18/95	Okano, et al.	435	6	
	A36	5,445,934	08/29/95	Fodor, et al.	435	6	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

AM	C31	Schober, et al., "Accurate High-Speed Liquid Handling of Very Small Biological Samples", <i>Biotechniques</i> , 15(2):324-329 (1993).					
	C32	Shalon, "DNA Micro Arrays: A New Tool for Genetic Analysis" (Dec. 1995) (Ph.D. Thesis, Stanford University).					
	C33	Shalon, et al., "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-Color Fluorescent Probe Hybridization", <i>Genome Research</i> , 6:639-645 (July 1996).					
	C34	Southern, et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models", <i>Genomics</i> , 13:1008-1017 (1992).					
	C35	Woolley, et al., "Ultra-high-speed DNA Fragment Separations Using Microfabricated Capillary Array Electrophoresis Chips", <i>Proc. Natl. Acad. Sci. USA</i> , 91:11348-11352 (Nov. 1994).					
	C36	Zhao et al., "High-Density cDNA Filter Analysis: A Novel Approach for Large-Scale, Quantitative Analysis of Gene Expression." <i>Science</i> , 156:207-213 (1995).					

EXAMINER Adam Marscher

DATE CONSIDERED 3-23-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (modified)List of Patents and Publications
For Applicant's Information
Disclosure StatementATTY. DOCKET NO.
STFD 009-1SERIAL NO.
Not yet assigned
(Continuation of 08/688,488)

APPLICANTS: P.O. Brown and T.D. Shalon

FILING DATE
herewithGROUP
~~1630~~ 1631**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AM	A37	5,472,842	12/05/95	Stokke et al.	435	6	
	A38	5,474,895	12/12/95	Ishii, et al.	435	6	
	A39	5,510,270	04/23/96	Fodor, et al.	436	518	
	A40	5,512,430	04/30/96	Gong	435	5	
	A41	5,514,543	05/07/96	Grossman, et al.	435	6	
	A42	5,514,785	05/07/96	Van Ness, et al.	536	22.1	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

AM	C37	Hewlett-Packard, "Peripherals Index," from HP Fax Information Retrieval Support Technology, Phone No. 1-800-333-1917, 6 pages.
	C38	Hewlett-Packard, "Document #9651", from HP Fax Information Retrieval Support Technology, Phone No. 1-800-333-1917, 3 pages.
	C39	Hewlett-Packard, "Document #5322", from HP Fax Information Retrieval Support Technology, Phone No. 1-800-333-1917, 5 pages.
	C40	Hewlett-Packard, "Document #5330," from HP Fax Information Retrieval Support Technology, Phone No. 1-800-333-1917, 5 pages.
AM	C41	NIH grant application of P.O. Brown submitted 1992.
AM	C42	J.A., "Putting Genes on a Chip", <i>Science</i> , 264: (1994)

EXAMINER

Nehi Mansher

DATE CONSIDERED

3-23-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (modified)List of Patents and Publications
For Applicant's Information
Disclosure StatementATTY. DOCKET NO.
STFD 009-1SERIAL NO.
Not yet assigned
(Continuation of 08/688,488)

APPLICANTS: P.O. Brown and T.D. Shalon

FILING DATE
herewithGROUP
~~1001~~ 1631**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AM	A43	5,516,641	05/14/96	Ullman, et al.	435	6	
	A44	5,518,883	05/21/96	Soini	435	6	
	A45	5,545,531	08/13/96	Rava, et al.	435	6	
	A46	5,556,748	09/17/96	Douglas	435	6	
	A47	5,556,752	09/17/96	Lockhart, et al.	435	6	
✓	A48	5,578,832	11/26/96	Trulson, et al.	250	458.1	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

AM	C43	Eggers, et al., "A Microchip for Quantitative Detection of Molecules Utilizing Luminescent and Radioisotope Reporter Groups," <i>BioTechniques</i> , 17:516-525 (Sept. 1994).
	C44	De Risi, et al., "Use Of a cDNA Microarray to Analyse Gene Expression Patterns In Human Cancer," <i>Nature Genetics</i> , 14:457-460 (Dec. 1996).
	C45	McGall, et al., "The Efficiency of Light-Directed Synthesis of DNA Arrays on Glass Substrates", <i>J. Am. Chem. Soc.</i> , 119:5081-5090 (1997).
✓	C46	Pirrung, et al., "Comparison of Methods for Photochemical Phosphoramidite-Based DNA Synthesis," <i>J. Org. Chem.</i> , 60:6270-6276 (1995).

EXAMINER *Adin Marales*

DATE CONSIDERED 3-23-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (modified)List of Patents and Publications
For Applicant's Information
Disclosure StatementATTY. DOCKET NO.
STFD 009--1SERIAL NO.
Not yet assigned
(Continuation of 08/688.488)

APPLICANTS: P.O. Brown and T.D. Sharon

FILING DATE
herewithGROUP
~~1631~~ 1631**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AM	A49	5,412,087	05/02/95	McGall, et al.	536	24.3	
	A50	5,474,796	12/12/95	Brennan	427	2.13	
	A51	5,563,060	10/08/96	Hozier	435	240.23	
	A52	4,591,570	05/27/86	Chang	436	518	
	A53	5,605,662	02/25/97	Heller, et al.	422	68.1	
V	A54	5,200,051	04/06/93	Cozzette, et al.	204	403	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

EXAMINER

Aedin Manscher

DATE CONSIDERED 3-23-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (modified)List of Patents and Publications
For Applicant's Information
Disclosure StatementATTY. DOCKET NO.
STFD 009--1SERIAL NO.
Not yet assigned
(Continuation of 08/688.488)

APPLICANTS: P.O. Brown and T.D. Shalon

FILING DATE
herewithGROUP
~~1634~~ 1631**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AM	A55	5,252,743	10/12/93	Barrett, et al.	548	303.7	
	A56	5,744,305	04/28/98	Fodor, et al.	435	6	
	A57	5,800,992	09/01/98	Fodor, et al.	435	6	
	A58	5,795,716	08/18/98	Chee, et al.	435	6	
	A59	5,677,195	10/14/97	Winkler, et al.	436	518	
	A60	5,665,549	09/09/97	Pinkel, et al.	435	6	
	A61	5,830,645	11/03/98	Pinkel, et al.	435	6	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

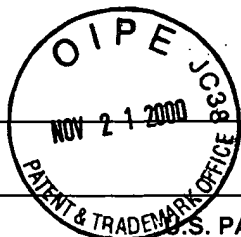
OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

EXAMINER *Radin Marach*

DATE CONSIDERED 3-23-01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i> PTO FORM 1449	ATTY. DOCKET NO. STFED:009—1	APPLICATION NO. 09/356,322
	APPLICANT Brown and Shalon	
	FILING DATE November 24, 1998	GROUP 1631



RECEIVED

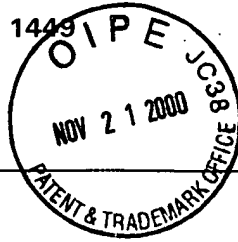
DEC 06 2000

TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
AM	1.	Hayakawa, Y., <i>et al.</i> , "Allylic Protecting Groups in Solid Phase DNA Synthesis," <i>Nucl. Acids. Res.</i> , 20:75-76(1988)					
	2.	Hayakawa, Y., <i>et al.</i> , "The Allylic Protection Method in Solid-Phase Oligonucleotide Synthesis. An Efficient Preparation of Solid-Anchored DNA Oligomers," <i>J. Am. Chem. Soc.</i> , 112:1691-1696 (1990)					
	3.	Katzhendler, J., <i>et al.</i> , "The Effect of Spacer, Linkage and Solid Support on the Synthesis of Oligonucleotides," <i>Tetrahedron</i> , 45(9):2777-2792 (1989)					
	4.	Koster, H., <i>et al.</i> , "N-Acyl Protecting Groups for Deoxynucleosides," <i>Tetrahedron</i> , 37:363-369(1981)					
	5.	Pochert, S., <i>et al.</i> , "Synthesis of DNA Fragments Linked to a Solid Support," <i>Tetrahedron</i> , 43(15):3481-3490(1987)					
	6.	Schulhof, D., <i>et al.</i> , "The Final Deprotection Step in Oligonucleotide Synthesis is Reduced to a Mild and Rapid Ammonia Treatment by Using Labile Base-protecting Groups," <i>Nucl. Acids. Res.</i> , 15(2):397-416(1987)					
	7.	Southern, E.M., <i>et al.</i> , "Analysis and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models," <i>Genomics</i> , 13:1008-1017(1992)					
	8.	Sproat, B and D.M. Brown., "A New Linkage for solid phase synthesis of oligonucleotides," <i>Nucl. Acids. Res.</i> , 13(8): 2979-2987(1985)					
	9.	Declaration of Stephen P.A. Fodor in the matter of European Patent No. 0 619 321 of Affymetrix Inc. and Oppositions thereto					
	10.	Declaration of John Sutherland in the matter of European Patent No. 0 619 321 of Affymetrix Inc.					

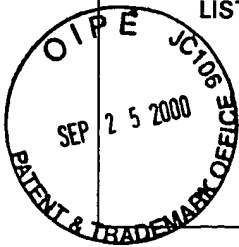
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<p align="center">LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i></p> <p align="center">PTO FORM 1449</p>	ATTY. DOCKET NO. STFED:009—1	APPLICATION NO. 09/356,322
	APPLICANT Brown and Shalon	
	FILING DATE November 24, 1998	GROUP 1631



	and Oppositions thereto
11.	Declaration of William Bains in the matter of European Patent No. 0 619 321 of Affymetrix Inc. and Oppositions thereto
12.	Reply of Affymetrix, Inc. to Oppositions by Ineyte Pharmaceuticals, Protogene Laboratories Inc., Multilyte Ltd and Oxford Gene Technology Limited against European Patent No. 0 619 321
13.	Statement of Opposition against EP 0804731 filed by Garching Innovation GmbH
14.	Statement of Opposition against EP 0804731 filed by Vysis, Inc
15.	Statement of Opposition against EP 0804731 filed by Affymetrix
16.	Statement of Opposition against EP 0804731 filed by Andrew Gregory Sheard
17.	Statement of Opposition against EP 0804731 filed by Glaxo Group Ltd.

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCKET NO.

STFD:009--1

APPLICATION NO.

09/356,322

APPLICANT

Brown and Shalon

FILING DATE

July 16, 1999

GROUP

1631

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AM	1.	4,378,333	03/29/83	Laipply	422	100	12/11/1980

FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AM	2.	EP 0 268 237 A2	05/25/1988	Europe				
	3.	EP 0 535 242 A1	04/07/1993	Europe				
	4.	WO 90/15070	12/13/1990	PCT				
	5.	WO 93/18186	09/16/1993	PCT				

OTHER REFERENCES

(Including Author, Title, Date, Pertinent Pages, Etc.)

AM	6.	"Drives help automate the Human Genome Project," <i>Design Engineering</i> , pg. 31 (1994)						
	7.	Ekins, R. and Chu, F., "Developing multianalyte assays," <i>Tibtech</i> , 12:89-94 (1994)						
	8.	Ekins, R., <i>et al.</i> , "High specific activity chemiluminescent and fluorescent markers: their potential application to high sensitivity and 'Multi-analyte' immunassays", <i>Journal of Bioluminescence and Chemiluminescence</i> , 4:59-78 (1989)						
	9.	Gress, T., <i>et al.</i> , "Hybridization fingerprinting of high-density of cDNA-library arrays with cDNA pools derived from whole tissues", <i>Mammalian Genome</i> , 3:609-619 (1992)						
	10.	Khrapko, K.R., <i>et al.</i> , "Hybridization of DNA with oligonucleotides immobilized in gel: a convenient method for detecting single base substitutions," <i>Molecular Biology</i> , 25(3):581-591 (1991)						
	11.	Maier, E., <i>et al.</i> , "Application of robotic technology to automated sequence fingerprint analysis by oligonucleotide hybridization," <i>Journal of Biotechnology</i> , 35:191-203 (1994)						
	12.	Maier, E., <i>et al.</i> , "Hybridisation techniques on gridded high density DNA and <i>in situ</i> colony filters based on fluorescence detection," <i>Nucleic Acids Research</i> , 22(16):3423-3434 (1994)						
	13.	Meier-Ewert, S., <i>et al.</i> , "Establishing catalogues of expressed sequences by oligonucleotide fingerprinting of cDNA libraries," <i>Identification of Transcribed Sequences</i> , 253-260 (1994)						
	14.	Mirzabekov, A., "DNA sequencing by hybridation - a megasequencing method and a diagnostic tool?", <i>Tibtech</i> , 12:27-32 (1994)						

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Andin Marsch

3/23/01